KULAGINA, M.Ye.; 'KOVSMAN, I.D.

Repeated myocardial infarct. Zdravookhranenie 3 no. 5:20-24 S-0 (MIRA 13:10)

KOVSMAN, Ye.P.; TYURIN, Yu.M.; KARAVAYEVA, Ye.A.; Prinimali uchastiye: BELOUS, A.B.; TSYBULEVSKAYA, A.M.

Anodic dissolution of some noble metals in organic media. Zhur.prikl.him. 37 no.1:217-218 Ja '64. (MIRA 17:2)

1. Lisichanskiy filial Gosudarstvennogo instituta azotnoy promyshlennosti.

TSINMAN, A.I.; KOVSMAN, Ye.P.; KUZUB, V.S.

Anodic behavior of titanium and susbility of a platinum titanium snode in aqueous methanol solutions containing chlorine ions.

Ukr. khim. zhur. 31 nc.9:923-926 165. (MURA 18:11)

1. Severodonetakiy filial Gosuiarstvennoge neochnomissledovatel'akogo i proyektnogo instituta arctnoy promyshlennosti i produktov organicheskogo sinteza.

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825710

AUTHORS: Huzub, V.S., Muzub, L.G., Kovsman, Ye.P. SOV/63-3-6-39/43

The Problem of the Influence of Anions on Electrode Processes TITLE: (K vopresu o vliyanii anionov na elektrodnyye rotsessy)

PENIODICAL: Khimicheskaya nauka i promychlomosti, 1 pt, Vol III, Nr 6, pp 836-837 (USSR)

ABSTRACT: The adsorption of iodine ions on cadmium is a function of the potential. Shifting the potential to positive values leads to a more intensive covering of the surface by fedine ions which is expressed in a despening of the minimum in the curves lg i and . The abnormal dependence of 15 i on a in the presence of haloide icas is probably due to a change

of the electrode surface caused by the formation of surface connections between the metal and the haloide iens.

There are 6 graphs and 8 Soviet references. ASSOCIATION:

Chernovitskiy gosudarstvennyy universitet (Chernovitsy State University)

SUBMITTED: April 24, 1958

Card 1/1

TYURIH, Yn.M.; VESELOVA, K.V.; KURATOVA, V.A.; KOVSMAN, Ye.P.;
BELOUS, A.P.

Electrolysis of monomethyl ester of adipic acid in methanol solution. Zhur.prikl.khim. 35 no.5:1082-1092 My 162. (MIRA 15:5)

l. Lisichanskiy filial Gesudarsteennege instituta azotney promychlornosti,
(Adipie acid) (Electrolysis)

Worthwork, M.S.; Gorbunova, S.P.

Using herbicides mixed with mineral fertilizers. Zemledelie 6
no.5:66 My '58.

(Gorn (Maize)) (2,4-D) (Fertilizers and mamures)

NIKOLAYEV, V.I., ZEL'DIN, V.S.; KOYTANZEK, V.M.

New developments in research. Shal' 24 no.2:144 F '64. (MIRA 17:9)

DONSKOY, B.V., inzhener; KOVTANYUK, Ye.F., inzhener.

Controlling corrosion of brass tubes. Energetik 4 no.10:19 0 '56.
(MCRA 9:11)

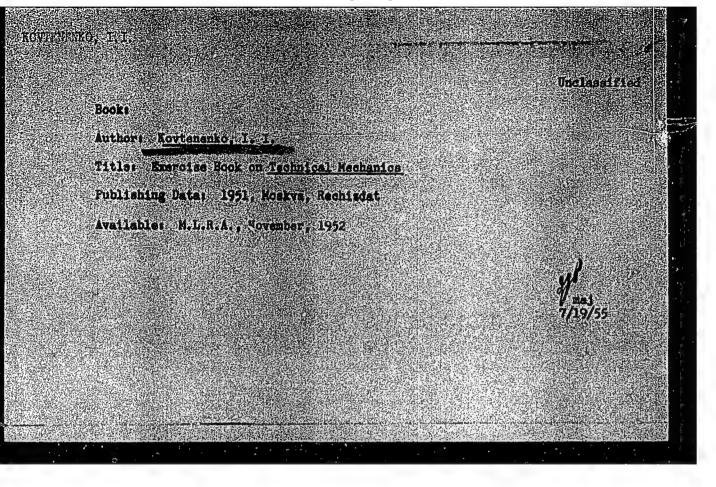
(Corrosion and anticorrosives) (Zinc-Analysis)

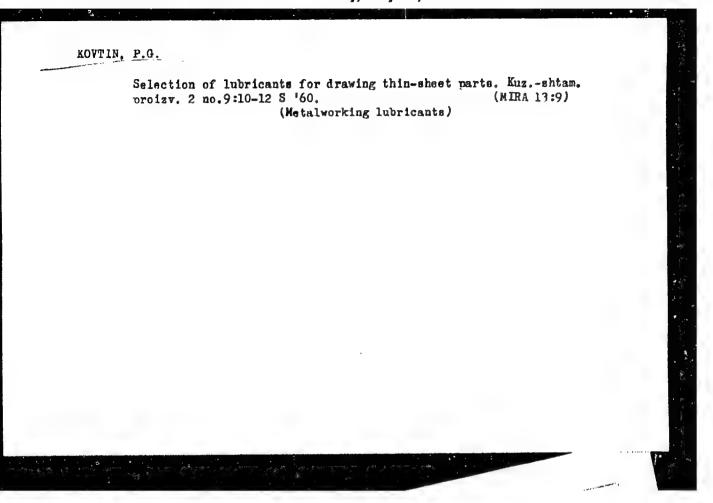
VEDYUKOV, Ye.A., inchener; herealy ve.F., inchener; Donskey, 3.V., inchener.

Improving the operation of chemical water purification in heat and power plants (TRPS). Energetik 5 no.6:15-16 Je '57, (MLRA 10:7) (Feed-water purification)

ARHOZE DZHIKIDZE, E.K.: GVAZAVA, I.S.: KOVTARADZE, K.N. Comparative study of narious methods for treating experimental Sonne dysentery in monkeys [with summary in English]. Antibiotiki 2 no.6:20-27 N-D 157. (MIRA 11:2) 1. MedikoObiologicheskaya stantsiya AMN SSSR (Sukhumi) (DYSERTERY, BACILLARY, experimental, antibiotics, comparison in monkeys (Rus)) (ANTIBIOTICS, effects, on exper. bacillary dysentery in monkeys (Rus))

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825710





5/120/62/000/002/038/047 Analysis of semiconductor homogeneity by the method Kokorev, D.T., and Kovtonyuk, N.F. PERIODICAL: Pribory i tekhnika eksperimenta, no.2, 1962, 160-164 TEXT: bulk conductance of semiconductors, methods based on the to space charge. in the bulk conductance of semiconductors, there is an e.m.f. in the bulk conductance of semiconductors, methods based on this renders previous methods materials. This renders provious materials. Inhomogeneous materials are the probest valid only for strongly inhomogeneous materials. AUTHORS: due to space charge. This renders previous methods materials.

This renders previous methods materials. light probes valid only for strongly inhomogeneous materials.

Strongly inhomogeneous materials.

I inhomogeneous TITLE: A calculation of the space charge e.m.f. is carried out on much linear dimensions much linear assumption of a semiconductor plate with linear riers. and ereater than the diffusion length of current carriers. assumption of a semiconductor plate with linear and and signal and length of current light spot dimensions reader than the diffusion length of the light spot and light probe. The light spot and light probe and the surface tollinear electrodes and light and the the surface. The light recombination small and constant over the surface. are assumed negligibly small, and the rate of surface.

recombination small and constant over the electrode recombination small and constant over the surface. to spot is at a sufficient distance from the electrodes resulting the possibility of nonequilibrium carriers reliminate the possibility of nonequilibrium carriers. spot is at a sufficient distance from the electrodes reaching carriers the eliminate the possibility of nonequilibrium carriers.

The trap concentration is nonzero.

APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-005131

Analysis of semiconductor ...

Card 1/8 7

S/120/62/000/002/038/047

shape of the V(r) curve is symmetrical, reaching values of several microvolts near the electrodes of an 8 mm bar, and passing through zero at the centre of the bar, for a homogeneous bar. Slight deviations from this curve (Fig. 3) correspond to mild inhomogeneities. Continuous and automatic measurements can be carried out; mention is made of recording the V(r) curve

ASSOCIATION: Moskovskiy institut khimicheskogo mashinostroyeniya (Moscow Chemical Engineering Institute) SUBMITTED:

June 3, 1961

Card 2/3

S/139/62/000/002/028/023 E075/E335

AUTHOR: Kovtonyuk, N.F.

TITLE: On transient phenomena of volume photo e.m.f. in semiconductors

PERICOICAL: Izvestiya vysshikh uchebnykh zavedeniy, Fizika, no. 2, 1962, 174

TEXT: In investigating volume photo e.m.f., i.e. e.m.f. Cenerated in the body of a semiconductor due to nonuniformities in resistivity, the following transient processes are observed in electron-type germanium: 1) when light is switched on, at first e.m.f. of one polarity will be generated, then when a certain value is reached, the e.m.f. begins to drop, passes through zero and a steady-state e.m.f. is established of a polarity opposite to the initial one. 2) When the light is switched off, there will first be an increase in the e.m.f. and only after reaching a certain value will the e.m.f. start to drop and tend to reach zero. Such phenomena were not observed for CdS, Ge, etc. and therefore it is assumed that these phenomena are due to physical processes which occur inside the Card 1/2

S/139/62/000/002/023/023 E075/E335

On transient phenomena

investigated specimens. Surface changes (etching, placing in a vacuum) lead to changes in the absolute e.m.f. but do not influence the transient process, which proves that this is a volume phenomena. It can be explained by taking into consideration that in the real semiconductor there will always be a certain concentration of adhesion levels, which have a strong influence on the kinetics of the nonequilibrium carriers and on the generated e.m.f. It was observed that by capturing nonequilibrium carrent carriers, adhesion levels should have a considerable influence on the photo e.m.f. in semiconductors and even change its sign; this is in agreement with published theoretical results. Such phenomena may prove suitable for investigating and establishing the concentration of the adhesion levels in semiconductors. There is I figure.

ASSCCIATION: Moskovskiy institut khimicheskogo mashinetroyeniya

(Moscow Institute of Chemical Engineering)

SUBMITTED: July 29, 1961

Card. 2/2

KOVTONYUK, N.F.

Transient processes of volume photoelectromotive force in semi-conductors. Izv.vys.ucheb.zav.;fiz. 2:174 '62. (MIRA 15:7)

1. Moskovskiy institut khimichaskogo mashinostroyeniya.
(Semiconductors) (Photoelectricity)

KOVTONYUK, N.F.; KOKOREV, D.T.

On the theory of the volume photo-emf in semiconductors.

Izv. vys. ucheb. mav.; fim. no.5:121-123 '62. (MIRA 15:12)

1. Moskovskiy institut khimicheskogo mashinostroyeniya.
(Photoelectricity) (Semiconductors)

KOKOREV, D.T.; KOVTONYUK, N.F.

Homogeneity analysis of semiconducting materials by the space charge photo-emf method. Prib. i tekh. eksp. 7 no.2:160-164.

Mr-Ap '62. (MIRA 15:5)

1. Moskovskiy institut khimicheskogo mashinostroyeniya. (Electromotive force) (Semiconductors--Analysis)

L 18719-63 EWF(1)/EWG(k)/EWP(q)/EWT(m)/BDS AFFTC/ASD/ESD-3/IJP(C) Pz-lr ACCESSION NR: AT3002247 JD/AT S/2941/63/001/000/0347/0352

AUTHOR: Kovtonyuk, N. F.

TITLE: Frequency dependence of luminescence in semiconductors

SOURCE: Optika i spektroskopiya; sbornik statey. v. 1: Lyuminestsentsiya. Moscow, Izd-vo AN SSSR, 1963, 347-352

TOPIC TAGS: vibrational component, electroluminescence, dielectric constant, recombination, charge carrier

ABSTRACT: The dependence of constant and variable concentration components of a nonequilibrium charge carrier on frequency modulated excitation was studied. The concentration of these injected charge carriers n is given by expression (1):

$$n(t) = N_0 + \frac{1 + i\omega T}{1 + \omega^2 \gamma^2} N_{00}i\omega t$$

where t = time; No = constant vibrational component of charge carrier (independent

Card 1/2

L 18749-63

ACCESSION NR: AT3002247

of frequency); w = frequency.

Analytic curves are obtained for the constant component, variable component, and total electroluminescence brightness versus frequency. Experiments were also made to determine frequency dependence of blue and green light components of the electroluminophor ZpS-cu ln addition, the frequency dependence of the real and imaginary parts of the luminophor dielectric-constant frequency were obtained experimentally under ultraviolet excitation. It is observed that the frequency dependence of electroluminescence brightness can be used to define kimetic recombination processes in the luminophor through duration lifetime of the current carrier. "The author acknowledges the help of D. T. Kokorev." Orig. art. has: 9 formulas and 3 figures.

ASSOCIATION: none

SUBMITTED: 09Apr62

DATE ACQ: 19May63

ENCL: 00

SUB CODE: PH

NO REF SOV: 012

OTHER: 009

Card 2/2

5/051/63/014/004/022/026 E039/E420

AUTHOR: Kovtonyuk, N.F.

The mechanisms of electroluminescence and electric TITLE:

breakdown in semiconductors

PERIODICAL:Optika i spektroskopiya, v.14, no.4, 1963, 576-577

An attempt is made to explain how electroluminescence

arises in fields less than indicated by the ratio

$$_{\rm GEL} = \Delta \varepsilon$$
 (1)

E - the strength of the where c - the charge on the electron. electric field, V - the free-path length of electrons and $\Delta \varepsilon$ - the width of the forbidden band, and also to explain some of the breakdown characteristics of semiconductors and dielectrics. Taking collisional ionization as the basic mechanism, the energy obtained by electrons in the conduction band from an alternating clectric field is obtained and from this the kinetic energy gained by electrons between two collisions is derived

$$W = \frac{e^{2g^2\tau_m^2}}{2m^{\kappa}(1+\omega^2\tau_m^2)}$$
(4)

Card 1/2

S/051/63/014/004/022/026 E039/E420

The mechanisms of ...

where $\tau_{\rm m}$ is the time between two collisions, ${\rm m}^{\rm m}$ - the effective mass of the electron and ω - the frequency of the alternating field. This shows that the electron energy is not dependent on the sign of E and hence the electron can accumulate energy from the electric field over many free paths and ionization is possible in fields less than required by Eq.(1). One of the important characteristics of breakdown is the delay time ty which is the sum of the times of free flight required to obtain the necessary energy. The electron energy necessary for ionizing semiconductors is given by $\Delta s = NW$ where N is the number of free flights and W is given by Eq.(4). The delay time ty = $N\tau_{\rm m}$ and hence one obtains

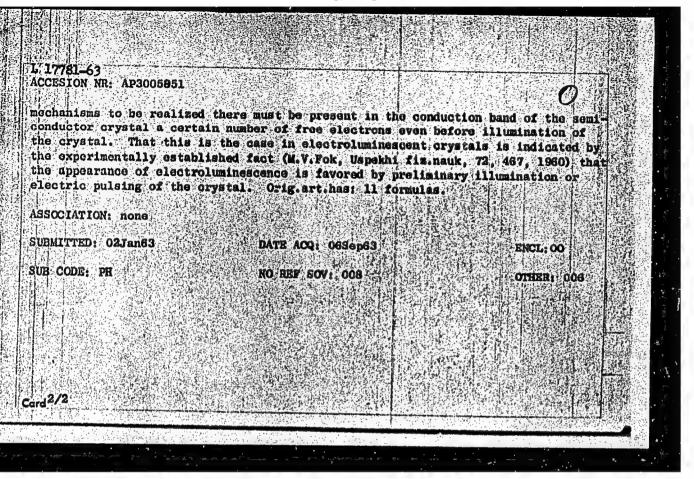
$$t_{3} = \frac{2m^{*} \Delta \varepsilon}{e^{2} \varepsilon^{2} \tau_{m}} \tag{7}$$

This indicates that the delay time for breakdown is inversely proportional to the electric field strength which is in full agreement with experimental results and confirms the validity of the calculations.

Card 2/2 SUBMITTED: September 18, 1962

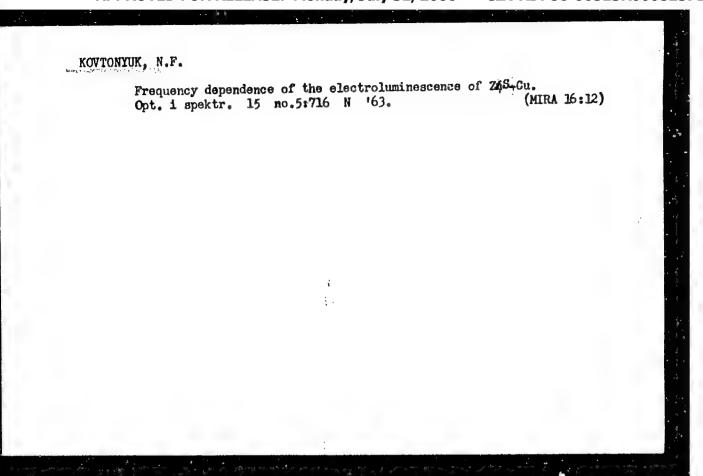
EAT(1)/BOS APPTC/ASD/ESD-3/TJP(C)/SSD L 17781-63 8/0051/63/015/002/0262/0265 ACCESSION NR: AP3005851 AUTHOR: Kovtonyuk, N.F. TITLE: Contribution to the theory of electroliminescence SOURCE: Optika i spektroskopiya, v.15, no.2, 1963, 262-265 TOPIC TAGS: electroluminescence, impact ionization, multiple impact ABSTRACT: The author examines some aspects of the mechanism of electroluminescence with a view to explaining some of the effects observed in investigations of this form of luminescence. It is accepted that the basic mechanism of electroluminescence is impact ionization; however, the classical theory of Destricu and Curie (D.Curie, J.Phys.rad., 13, 317, 1952), although valid in many respects, is incapable of explaining certain experimental facts. The author's argument is that the energy picked up by a conduction electron from the external field between two encounters is too small for ionization and that it must therefore be assumed that the elec tron acquires the necessary energy as a result of continued acquisition of energy over a number of free paths. Some calculations and considerations are adduced to support this argument. It is pointed out that for this energy acquisition, assessment

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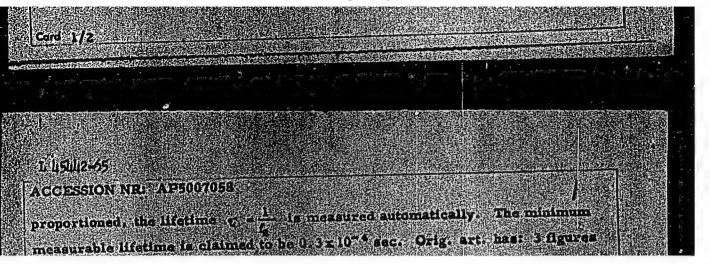


KOVTONYUK, N.F.

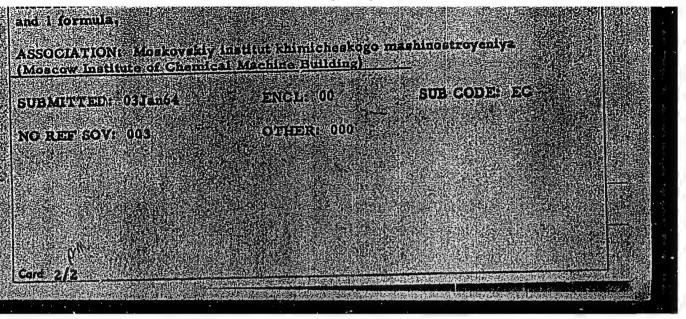
On the theory of electroluminescence. Opt. i spekt. 15 no.2:262-265
Ag '63. (MIRA 17:1)



"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825710



"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825710



L 00680-66 EWA(h)/EVT(1)/T IJP(c) AT

ACCESSION NR: AP5012573 UR/0181/65/007/005/1548/1549

AUTHOR: Kovtonyuk, N. F. 14.65

TITLE: Gradient-recombination photo emf in semiconductors

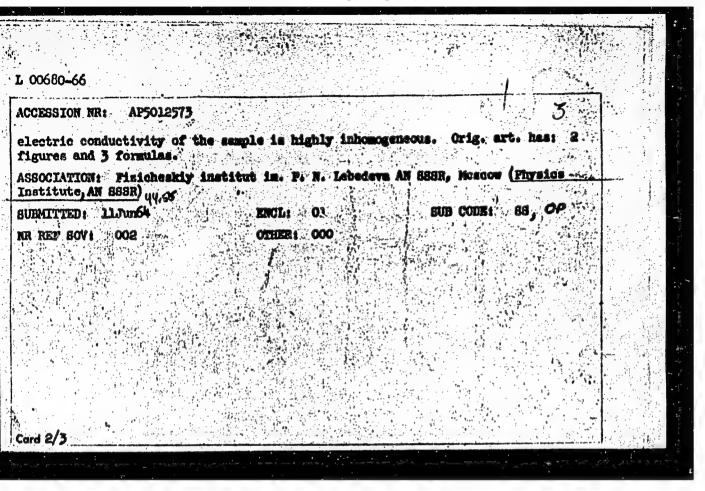
SOURCE: Fizika tverdogo tela, v. 7, no. 5, 1965, 1548-1549

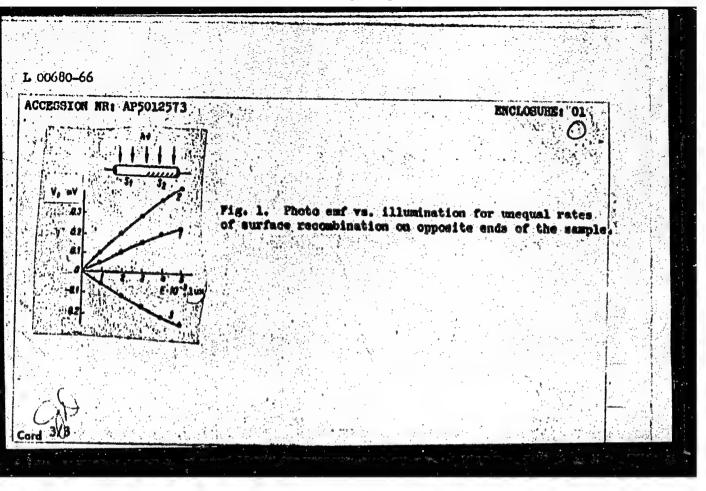
TOPIC TAGS: photo emf, surface property, semiconductor property, electron recombination, electron diffusion

ABSTRACT: The author investigated the photo emf of germanium samples with uniform electric conductivity in which a gradient of the rate of surface recombination was produced under either uniform or non-uniform illumination. Unlike the photo emf due to a gradient in the rate of volume recombination, the photo emf investigated in this study can be readily separated if only part of the sample surface is polished and the rest left untreated. The difference in the gradient between the two parts of the surface produces a diffusion flow of excess carriers, which gives rise to an emf that can be readily observed during simultaneous measurements of the volume photo emf. A typical plot of the photo emf against the position of the applied light spot is shown in Fig. 1 of the Enclosure. The sensitivity of the method can be increased by polishing different areas of the sample, but it is pointed out that it is very difficult to observe the gradient-recombination emf if the

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"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825710





"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000825710

L 08127-67 EWT(1) IJP(c) AT

ACC NR. AP6033835

SOURCE CODE: UR/0139/66/000/005/0028/0032

AUTHOR: Kovtonyuk, N. F. Fedonin, V. F.

15.

ORG: Moscow Technological Institute of the Meat and Milk Industry (Moskovskiy tekhnologicheskiy institut myasnoy i molochnoy promyshlennosti)

TITLE: On the theory of the photo emf in semiconductors with sawtooth surfaces

SOURCE: IVUZ. Fizika, no. 5, 1966, 28-32

TOPIC TACS: photo emf, photoelectric effect, semiconducting film

ABSTRACT: The possibility of utilizing the <u>Dember effect</u> to produce voltages of up to tens and hundreds of volts from small semiconductor films is theoretically investigated. In order to obtain a photodiffusion gradient of excess carriers, the authors assume that a semiconductor has been deposited on a substrate in such a way that it forms a sawtooth surface. It is further assumed that the depth of light penetration is equal to the linear dimensions of the elements of the "saw," and that the velocities of surface and volume recombination have certain determined values. The calculations show that under such conditions, and at T = 300K, the electromotive force of each element may have the value of kT/q = 0.025 v. Due to the connection in series of all elements, a very high voltage can be obtained at the two ends of the sample. The authors state that a similar mechanism is responsible for the larger-than-gap voltages which can be observed in certain materials. Orig. art. has: 15 formulas and 1 figure. SUB CODE: 20/ SUBM DATE: 26Jan65/ ORIG REF: 003/ ATD PRESS: 5102

ACC NR: AP7003532

SOURCE CODE: UR/03

UR/0386/67/005/001/0009/0012

AUTHOR: Guro, G. M.; Ivanchik, I. I.; Kovtonyuk, N. F.

ORG: Physics Institute im. P. N. Lebedev, Academy of Sciences, SSSR (Fizicheskiy institut Akademii nauk SSSR)

TITLE: Semiconducting properties of ferroelectrics

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Prilozheniye, v. 5, no. 1, 1967, 9-12

TOPIC TAGS: barium titanate, ferroelectric material, pn junction, forbidden band, electric polarization, light emission

ABSTRACT: Using the known fact that a ferroelectric crystal such as BaTiO₃ is similar to a p-n junction in which the regions of high free-carrier density are separated by a broad dielectric gap, the authors estimate the free-carrier densities in the n and p regions, and the free-carrier and electric-field distributions over the thickness of a BaTiO₃ plate. The estimates are made separately for an ideally pure crystal and for a real crystal with impurities. Analysis based on the band structure and on calculations of the induced potential difference lead to the following conclusions.

1. A BaTiO₃ crystal connected in an electric circuit will behave like a p-n junction with symmetric current-voltage characteristic. The symmetry of the characteristic is a result of repolarization, which causes the current to flow in one direction relative to the p-n junction.

2. During repolarization, nuclei of the opposite phase

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ACC NR: AP7003532

grow through the crystal. At the instant when opposite ends of nuclei meet, recombination takes place and is accompanied by emission of light. The frequency of such emission can be of the order of the width of the forbidden band, corresponding to violet light in the case of BaTiO₃. The emission should take place over the entire volume of the crystal and is flash-like. Work aimed at observing this emission is now under way. 3. Thin layers with anomalously high free-carrier density should exist near the surfaces of crystals not equipped with electrodes. Thus, the electric conductivity along the surface should be much higher than in the direction perpendicular to the surface. The authors thank B. M. Vul, V. A. Rassushin, and N. A. Penin for a discussion of the results. Orig. art. has: 3 figures and 4 formulas.

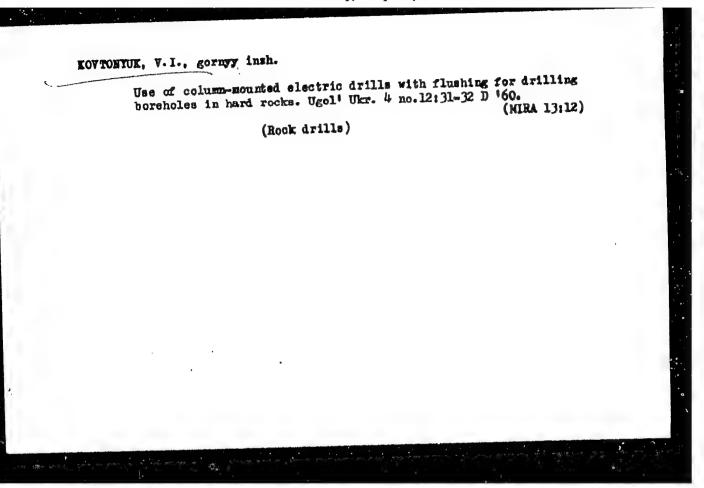
SUB CODE: 20/ SUBM DATE: 29Sep66/ ORIG REF: 002/ OTH REF: 004

Card 2/2

KOVTONYUK, N.F.

Gradient-recombination photo-e.m.f. in semiconductors. Fiz. tver.
tela 7 no.5:1548-1549 My '65.

1. Fizicheskiy institut imeni Lebedeva AN SSSR, Moskva.



VEDYUKOV, Ye.A., inzh.; DONSKOY, B.V., inzh.; KOVTONYUK, Ye.F., inzh.

Renoval of iron from condensate. Energetik 8 no.1:15-16
Ja '60. (MIRA 13:5)

(Filters and filtration) (Iron oxides)

(Feed-water purification)

"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000825710

(OVTUN ,	A.	
375	Budni odnogo zavoda. (aykhango gidroliznyy zavod). arkhangel'sk. kn. 120., 1954.88 s. siu. 20 sm. 3000 ekz. ly. 40k(54.54316) p 661.71. 09 (0:8)	
	SO: Knizhaya, Letopis, Vol. 1, 1955	

Pressure of grain on the walls of elevator siles. !Suk.-elev.prom. (MIRA 13:4)

1. Odesskiy tekhnologicheskiy institut im. I.V.Stelina. (Grain elevators)

"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000825710

ALLIK, A. M.; KOVTUN, A. A.; Min. Engs.

Mining Engineering

Applying the analytical method in mining. (Continuation). Gor. zhur. no. 8, 1952.

Monthly List of Russian Accessions, Library of Congress, November 1952. UNCLASSIFIED.

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825710

KOVTUN, A. A.: Master Phys-Math Sci (diss) -- "Nonstationary processes in the propagation of impulse signals in a circular waveguide". Leningrad, 1958.

10 pp (Leningrad Order of Lenin State U im A. A. Zhdanov), 150 copies (KL, No 7, 1959, 121)

AUTHOR: Kovtun, A.A.

109-3-5-9/17

TITIE:

Transient Processes in Waveguides (Nestatsionarnyye

protsessy v volnovode)

PERIODICAL:

Radiotekhnika i Elektronika, 1958, Vol III, Nr 5, pp 660 - 674 (USSR)

ABSTRACT: A cylindrical waveguide system (see Fig.1) is considered. The system is divided into a region I (r < R where R is the radius of the waveguide) and region II for r>R. The regions I and II have permittivities ε_1 and ε_2 , permeabilities μ_1 and μ_2 and conductivities σ_1 and

A cylindrical co-ordinate system z, r, ϕ is assumed and it is supposed that a current source, described by Eq.(1) is situated at a point z=0, $\phi=0$ and $r=R_1 < R$;

the function $\delta(x)$ is the Dirac symbol and the source is switched on at a time t=0. The time function of the source is described by Eq.(2). The field in the region I can be

$$\vec{E}_{I} = \vec{E}_{o} + \vec{E}_{1}; \quad \vec{H}_{I} = \vec{H}_{o} + \vec{H}_{1}$$

in the region II, as:

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CIA-RDP86-00513R000825710(

$$\vec{E}_{II} = \vec{E}_2; \quad \vec{H}_{II} = \vec{H}_2$$

where \mathbf{E}_0 and \mathbf{H}_0 is the field which would be produced by the current source in a free space, having $\mathbf{e}_0 = \mathbf{e}_1$, $\mathbf{\mu}_0 = \mathbf{\mu}_1$ and $\mathbf{\sigma}_0 = \mathbf{\sigma}_1$; \mathbf{E}_1 and \mathbf{H}_1 is the field reflected from the boundary of the two media. The fields can be represented as a sum of transverse-electric components $\mathbf{E}_{h,l}$ and of transverse magnetic components $\mathbf{E}_{h,l}$ and $\mathbf{H}_{h,l}$ and of transverse magnetic components $\mathbf{E}_{e,l}$ and $\mathbf{H}_{e,l}$ where l=0,1,2. The problem can be solved by determining a function l=0,1,2. The problem can be solved by determining found from Eq.(3), which should satisfy the boundary conditions expressed by Eq.(4). The solution for the function is in the form:

the form:
$$\frac{1}{4\cdot 2} \sum_{m=-\infty}^{\infty} e^{im\phi} e^{ikz} \mathbf{Y}_{m\delta N}(rkt) dk \qquad (6)$$

Card 2/5

109-3-5-9/17

where the functions Y are defined by two equations on p.662, where H and J are cylindrical functions. If the diving source is such that $T_{\rm ho}=0$, the function $T_{\rm eo}$ can be expressed as shown on p.662; if it is assumed that $R_1=0$ and $\sigma_1=0$, the coefficients A of the functions \overline{V} are expressed by Eq.(7). When $\sigma_2=\infty$, the function \overline{V} in the region I is expressed by Eq.(8), where F, α and f(y) are defined by Eqs.(9) and (10). The symbols $\overline{\sigma}$, and \overline{V} are normalised radius, time and length co-ordinates. Solution of Eq.(8) can be expressed as Eq.(13); under certain conditions, Eq.(13) can be simplified and given in the form of Eq.(15). Eq.(13) can also be written as Eq.(16) where the integrals $I_{\rm ho}$ are defined by Eqs.(17) or (18). For $\overline{V} \to \infty$, the integrals $I_{\rm ho}$ are in the form of Eqs.(19). It is also shown that the functions $I_{\rm ho}$ can be expressed in terms of lower functions, as shown by Eqs.(21). Provided the conditions defined by Eqs.(22) and (23) are fulfilled, $I_{\rm ho}$ can be given by Eqs.(24);

109-3-5-9/17

for the time instants defined by Eqs.(25), the functions I_n can be expressed by Eq.(26), where p_0 and w are expressed by Eqs.(27). When are $p_0 = 3\pi/4$, the functions I_n can be expressed by Eqs.(28). From Eqs.(6), it follows that E_z component of the electro-magnetic field can be expressed by Eq. (29); if E_z is expressed as a sum of two components, E_z and E_z^1 (see Eq.(30)) and if the system satisfies the conditions expressed by Eq.(31), the E_z^1 component is given by Eqs.(33) and (34). Alternatively, the E_z^1 component can be expressed by Eq.(35), where F_1 and F_2 are defined by Eqs.(36) and (37). If the time function of the source is given by Eq.(38), the φ component of the electro-magnetic field is expressed by the first equation on p.668. The E_z^0 component of the electric field (see Eq.(30) is written as Eq.(41). From the above, the envelopes of T_{00} waves can be written as Eqs.(43) and the time instants when the amplitudes of these waves have

109-3-5-9/17

either maxima or minima are defined by Eq.(44). Figs. 3 and 4 show the envelopes (dotted lines) of the E_z components of TM_{On} waves for $\zeta = 100$ and $\zeta = 300$. Fig.5 shows the form of the signal for $\zeta = 10$, as calculated from Eqs.(28). On the basis of Eq.(6), the general solution for the function T can be written as Eq.(46) which, in the case of a waveguide having walls of finite conductivity, gives the electric field component E_z in the form of Eq.(47). The function T in Eq.(47) is defined by Eq.(48). The results presented in this paper form a part of the author's dissertaion entitled "Transient Processes in a Waveguide" which was carried out under the supervision of G.I. Makarov. There are 6 figures and 15 references, 8 of which are Soviet, 5 English and 2 Polish.

SUBMITTED: January 31, 1957

AVAILABLE: Library of Congress

Card 5/5

1. Waveguide-Transients-Processes

KOVTUN, A.A.; NOBOSELOVA, S.M.

Establishing an alternating electromagnetic field over a stratified homogeneous medium. Uch. zap. IGU no.286:174-184 '60.

(Electromagnetic prospecting)

(MIRA 14:3)

Conference on electromagnetic methods used in studying the earth. It /. W SSSR. Ser. geofiz. no.10:1548-1550 0 '61. (MIRA 14:9) (Electric prospecting--Congresses) (Magnetic Prospecting--Congresses)

30282

\$/049/61/000/011/004/005

D239/D303

3.9410 AUTHOR:

Kovtun, A.A.

TITLE:

Magnetotelluric investigations of structures consist-

ing of one inhomogeneous layer

PER IODICAL:

Akademiya nauk SSSR. Izvestiya. Seriya geofiziches-

kaya, no. 11, 1961, 1663-1667

The case of a single layer with two conti-guous media of differing electrical properties, separated by a linear boundary, is sufficiently common in geophysical prospecting (faults, changes in sedimentary cover, etc.) to make a mathematical treatment of this specially simple case useful. The basic theory for a homogeneous layer is first given, showing how the conditions can be described by two impedances Z_X Z_y relating to two mutually perpendicular axes and defined by $Z_y = -E_y/H_x$, $Z_x = E_x/H_y$. In the inhomogeneous

case considered, the method depends on having a sufficiently long record of all four components to be able to spot an instant when Card 1/3

APPROVED FOR RELEASE: Monday, July 31, 2000

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30282

Magnetotelluric investigations ...

S/049/61/000/011/004/005 D239/D303

the vectors E and H are perpendicular. A plane wave then travels in a direction parallel or perpendicular to the direction of the boundary, which is thereby determined. Certain specially simple mathematical relationships then hold which enable Z_x and Z_y to be de-

termined as well. The method was tried out on some short period observations taken in 1958 on an expedition under the auspices of the VNIIgeofiz. and the LGU. In a two hour record, ten instances of a plane wave of single period (about 30 sec) were analyzed. The results were consistent with three possible directions for the axis of inhomogeneity, but two of these could be ruled out by other knowledge. The accuracy quoted is + 2° and + 8% for Z. There are 2 figures and 3 references: 2 Soviet-bloc and 1 non-Soviet-bloc. The reference to the English-language publication reads as follows: L. Cagniard, Basic theory of the magnetotelluric method. Geophys., 18, no. 3, 1953.

ASSOCIATION:

Leningradskiy gosudarstvennyy universitet im. A. A. Zhdanova (Leningrad State University, im. A. A. Zhda-

Card 2/3

302 82 \$/049/61/000/011/004/005 D239/D303

Magnetotelluric investigations...

SUBMITTED: May 25, 1961

Card 3/3

KOVTUN, A.A.; RASPOPOV, O.M.

Equipment for magnetotelluric sounding. Geofiz.prib. no.8:89-97
161. (MIRA 15:7)
(Magnetic prospecting)

KOVTUN, A.A.

Construction of curves of magnetotelluric sounding from recordings of brief periodic variations in the earth's natural electromagnetic field. Uch.zap.IGU no.303:56-66 '62. (MIRA 15:11) (Electromagnetic prospecting)

ACCESSION NR: AP4043137

S/0049/64/000/007/0999/1006

AUTHOR: Yanovakiy, B. H., (Doctor of physico-mathematical sciences), Bryunelli, B.Ye., Kovtun, A.A., Kuznetsov, N.S., Raspopov, O.M., Chicherina, N.D.

TITLE: Magnetotelluric sounding in the Central Russian Depression

SOURCE: AN SSSR. Izv. Seriya geofizicheskaya, no. 7, 1964, 999-1006

TOPIC TAGS: magnetotelluric sounding, geology, geophysics, terrestrial conductivity, magnetotelluric profiling, electrical profile

ABSTRACT: Information published earlier on magnetotelluric sounding work in the Central Russian Depression is reviewed, and new work done in the central part of the region is described. The work was undertaken to determine the value of the total longitudinal conductivity and the depth and thickness of the poorly conducting basement. Information on the relief of the bottom of the depression is contradictory; data obtained by drilling, logging and sounding are compared. It is noted that the electrical profile of the studied region can be represented schematically as a three-layer structure with an upper layer of

Card 1/3

ACCESSION NR: AP4043137

relatively high resistivity, a layer of low resistivity and a base of high resistivity. It was with these initial data and concepts that an expedition from the Leningradskiy gosudarstvenny*y universitet (Leningrad State University) began magnetotelluric sounding work in the summer of 1962. Sounding was done at four points along a profile running across the assumed strike of the axis of the depression. Several days were spent at each point. The variations of the H_x H_yEx and E_y components of the electromagnetic field were recorded. Variations with different periods were recorded continuously for the period from 14 August through 4 September, 1962. A spectrum of variations from 5-10 to 2000-3000 seconds was obtained at each point. The vectors of variations in E and H in most cases were not perpendicular to one another. For periods of less than 400 seconds they were nonperpendicular by only 2-8°, but for greater periods the deviation was 10-15°. The methods and formulas used in processing the data are presented. It was found that all the curves obtained in approximately the same geological region differ in behavior in the region of small periods. indicating considerable variation in the sedimentary complex of the studied region. In addition, in the region of large periods on all the sounding curves, there was a maximum indicating an increase in conductivity at great depths. A formula for estimating the thickness of poorly conducting layers is given. The new magnetotelluric sounding data are

Card 2/3

ACCESSION NR: AP4043137

compared with drilling data. It was found that the depth of the upper surface of the wellconducting layer varies from point to point in the range 200-400 km; it is noted that variations of this scale also have been reported elsewhere in the literature. Orig. art. has:

7 formulas, 3 figures and 3 tables.

ASSOCIATION: Leningradskiy gosudarstvenny*y universitet imeni A. A. Zhdanova (Leningrad State University)

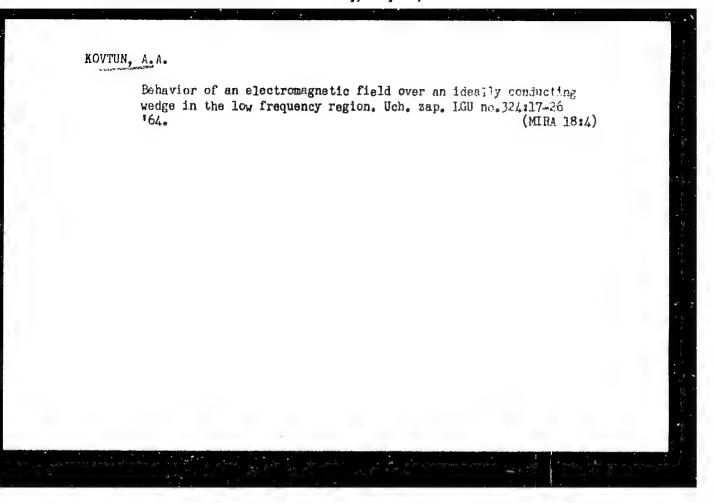
SUBMITTED: 10Jule3

ENGL: 00

SUB CODE: ES

NO REF SOV: 012

OTHER: 002



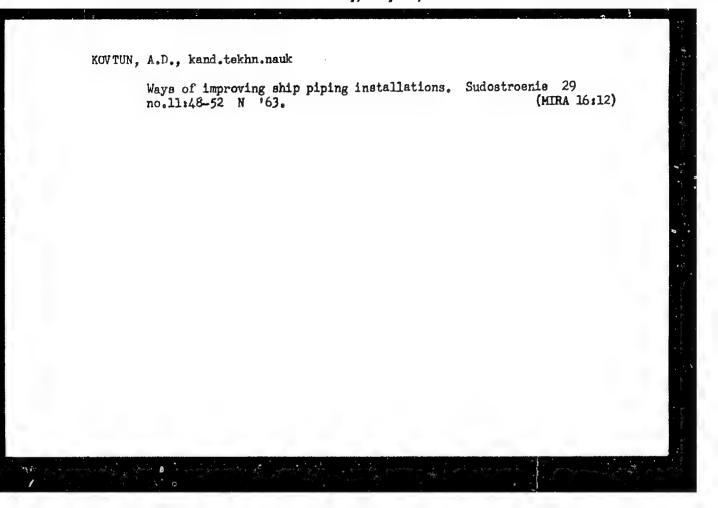
BRYUNETI, B.Ye.; KOVTUN, A.A.; KUZNETSOV, N.S.; RASPOPOV, O.M.; CHICHERINA, N.D.; YANOVSKIY, B.M.

Studying the structure of the Central Russian Depression by the magnetotelluric method. Uch. zap. LGU no.324:3-16 '646 (MIRA 18:4)

KOVTUN, A. D.

"The Application of Photography for the Determination of the Outlines of the Hulls of Ships and Screw Propellers." Cand Tech Sci, Leningrad Shipbuilding Inst, Leningrad, 1954. (KL, No 1, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12) SO: Sum. No. 556, 24 Jun 55

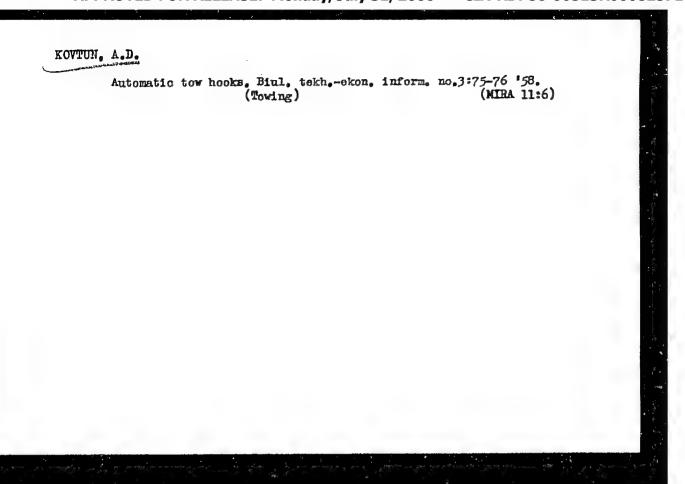


KOVTHN Aleksandr Danilovich: DORMIDONTOV, F.K., redaktor; DLUGOKANSKAYA, Ye.A. tekhnicheskiy redaktor.

[Photographic measurement of ships for the establishment of theoretic hull and propeller contour] Primenenie fotografii dlia s*emki s natury teoreticheskikh obvodov korpusov sudov i grebnykh vintov. Leningrad, Gos.soiuznoe izd-vo sudostroit.promyshl. 1956. 117 p.

(HLRA 10:4)

(Photography) (Shipbuilding)



Efficiency of ship hull structures. Sudostroenie 27 no.5:49-50 My * 61. (Hulls (Naval architauture))

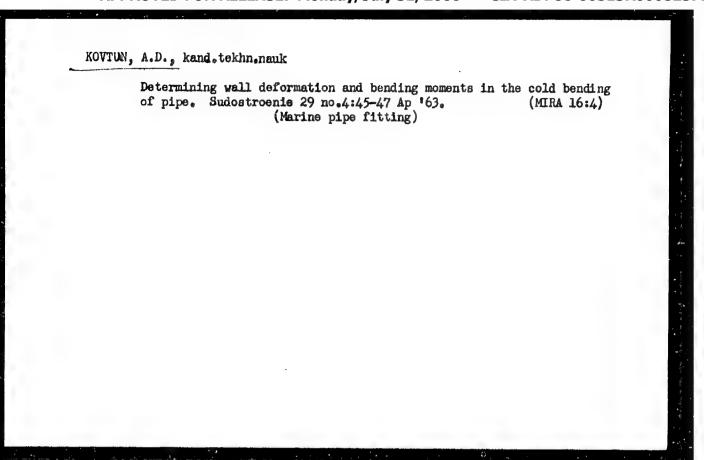
KOVTUN, A.D., kand.tekhn.nduk

Determining the magnitude of mandrel leading in machine pipe bending. Sudostroenie 28 no.6:59-61 Je '62. (MIRA 15:6) (Pipe bending) (Marine pipe fitting)

KOVTUN, A.D., kand. tekhn. nauk

Amount of spring and change in pipe curvature during cold bending. Sudostroenie 28 no.1:56-58 Ja *62.

(Pipe bending)



EERMAN, Sh.M.; YAN'SHINA, M.P.; SHAPOVALOV, V.S.; Prinimali uchastiye: KOVAL'CHUK, Ye.I.; PLOSHENKO, Ye.A.; POPOV, G.I.; SHKAPIN, V.G.; ANTONOV, G.I.; KOVTUN, A.M.

Service conditions and processes of the wear of basic refractories in the bulkheads of open-hearth furnace front walls. Shor.nauch. trud. UNIIO no.5:181-201 '61. (MIRA 15:12)

1. Ukrainskiy nauchno-issledovatel skiy institut ogneuporov (for Antonov, Kovtun).

(Open-hearth furnaces-Design and construction)

(Firebrick-Testing)

KOVTUN A.P. PLATONOV P.N.

Measurement of the pressure of a loose material from the initial stage of its displacement. Izv.vys.ucheb.zav.;pishch.tekh. 1:152
155 '61. (MIRA 14:3)

1. Odesskiy tekhnologicheskiy institut imeni I.V. Stalina, Kafedra pod"yemho—transportnykh mashin.
(Granular materials)

ANATOL'YEV, A.V.: KOVTUN, A.P.: PLATONOV, P.N.

Mechanics of stress transmission in a loose medium. Izv. vys. ucheb. zav.; pishch. tekh. no.4:128-133 '61. (MIRA 14:8)

1. Odesskiy tekhnologicheskiy institut imeni I.V. Stalina, laboratoriya mekhaniki sypuchikh sred, kafedra mekhanizatsii i avtomatizatsii proizvodstva.

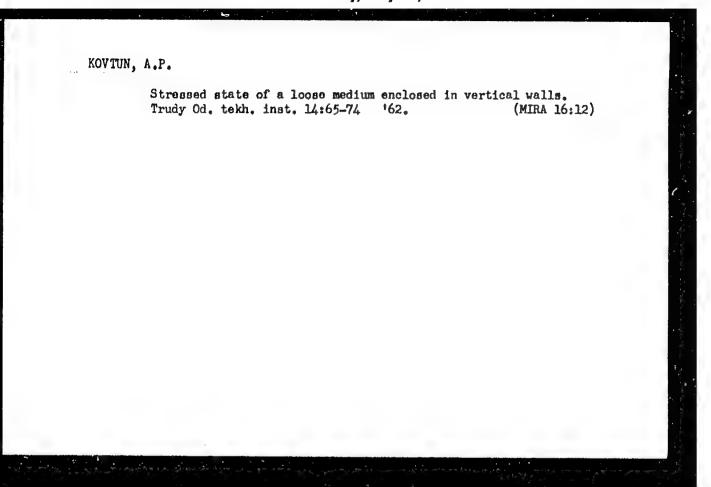
(Strains and stresses)

KOVTUN, A.P.

Simple method of determining the volumetric weight of soils.

Pochvovedenie no.3:109-112 Mr '62. (MIRA 15:7)

1. Ukrainskiy nauchno-issledovatel*skiy institut zemledeliya. (Soils-Analysis)



BENDERSKIY, S.N., kand.tekhn. nauk; BURSIAN, V.R., prof., kand.
tekhn. nauk; VASIL'YEV, P.N., inzh.; DORFMAN, E.Ye., inzh.;
ZHURAVLEV, V.F., kand. tekhn. nauk; KESTEL'MAN, V.N.,
inzh.; KRUGLOV, A.N., dots., kand. tekhn. nauk; KUKIENYY,
A.A., dots., kand.tekhn. nauk; LEVACHEV, N.A., dots., kand.
tekhn. nauk; LEYKIN, A.Ya., inzh.; NAREMSKIY, N.K., dots.,
kand. tekhn. nauk; PLATONOV, P.N., prof., doktor tekhn.
nauk; SOKOLOV, A.Ya., prof., doktor tekhn. nauk; KUTSENKO,
K.I., kand. tekhn. nauk, dots., retsenzent; VEREMEYENKO,
Ye.I., inzh., retsenzent; KOVTUN, A.P., inzh., retsenzent;
SEMENYUK, A.I., retsenzent; KASHCHEYEV, I.P., inzh.,
retsenzent; PAL'TSEV, V.S., kand. tekhn. nauk, retsenzent;
KHMEL'NITSKAYA, A.Z., red.

[Conveying and reloading machinery for the overall mechanization of the food industries] Transportiruiushchie i peregruzochnye mashiny dlia kompleksnoi mekhanizatsii pishchevykh proizvodstv. Moskva, Pishchevaia promyshlennost¹, 1964.
759 p. (NIRA 18:3)

(Continued on next card)

BENDERSKIY, S.N. (continued). Card 2.

1. Odesskiy tekhnologicheskiy institut imeni M.V.Lomonosova (for Kutsenko, Naremskiy, Veremeyenko, Kovtun). 2. Starshiy ekspert Upravleniya po avtomatizatsii i oborudovaniyu dlya pishchevoy promyshlennosti Gosudarstvennogo komiteta po mashinostroyeniyu pri Gosplane SSSR (for Semenyuk). 3. Glavnyy mekhanik Gosudarstvennogo instituta po proyektirovaniyu predpriyatiy mukomol'nokrupyanoy i kombikormovoy promyshlennosti i elevatorno-skladskogo khozyaystva (for Kashcheyev).

4. Zaveduyushchiy laboratoriyey Vsesoyuznogo nauchno-issledovatel'skogo instituta zerna i produktov ego pererabotki (for Pal'tsev).

BOSYY, M.K.; KOYTUN, A.P., student; KOLYADENKO, G.I., student; SUKHANOVSKAYA, O.N., studentka

Studies on the duration of inhibitory aferpotentials during extinction of conditioned reflexes. Vopr.fiziol. no.9:19-28 154. (MIKA 14:1)

1. Cherkasskiy pedagogicheskiy institut.
(REFLEX, CONDITION,
inhib. afterpotential, duration
during extinction)

BOSIY. M.K. ; KOVTUN. A.P.

Studying aftereffect inhibition following the prolonged effect of a differentiates stimulus. Fiziol.zhur. [Ukr.] 1 no.2:55-61 Mr-Ap '55. (INHIBITION) (MIRA 9:9)

BOSIY, M.K. [Bosyi, M.K.]; DRAGUN, G.D. [Drahun, H.D.]; KOYTUN, A.P.; KOLYADENKO, G.I. [Koliadenko, H.I.]; DAVIDENKO, I.M. [Davydenko, I.M.] MAKARUK, G.I. [Makaruk, H.I.]

Studying the consecutive inhibition of a single and summed effect of differentiated inhibition in dogs by the conditioned reflex method.

Report No.4. Nauk.zap. ChDPI 8:27-39 '56. (MIRA 11:2)

(INHIBITION) (CONDITIONED RESPONSE)

CIA-RDP86-00513R000825710

USSR/Human and Animal Physiology (Normal and Pathological). T-12

Nervous System. Higher Nervous Activity. Behavior.

: Ref Zhur - Biol., No 11, 1958, 51293 Abs Jour

Author Kovtun, A.P.

Inst

The Formation of a Temporary Connection Between the Trace Title

of a Single Indifferent Stimulus and a Present Stimulus

which Follows.

Orig Pub : Fiziol. zh., 1957, 3, No 2, 20-29

: For two dogs a present sound stimulus (S; with an electric Abstract

hammer) was repeatedly combined with a visual trace S (with a lamp). The conditioned reflex connection between the two S was established. It manifested itself in a motor reaction (turning the head in the direction of S). Trace association was stabilized by variations of place and intensity of S. After formation of an electrodefensive reac-

tion to one of the two S (light), the second associated

Card 1/2

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825710

USSR/Human and Animal Physiology (Normal and Pathological). T-12
Nervous System. Higher Nervous Activity. Behavior.

Abs Jour : Ref Zhur - Biol., No 11, 1958, 51293

S became inhibitive, the more so the more stable the defensive reaction became. These investigated phenomena of "combined inhibition" or "negative association" are based upon the principle of negative induction. -- K.S. Ratner.

Card 2/2

-] @ -

KOVTUN, A. P. Cand Biol Sci -- (diss) "Interrelation of processes of stimulation and inhibition during conditioned trace reflexes." Kiev, 1953

16 pp (Acad Sci URSSR. Department of Biol Sci), 150 copies (KL, 52-58, 100)

-35-

KOVTUN, A.P.

M.A. Rozhans'kyi [diysniy chlen AMN SRSR, zasluzhenniy diyach nauki RRFSR, prof.] Fiziol. zhur. [Ukr.] 4 no.2:279-281 Mr-Ap '58.

(MIRA 11:5)

1.Institut fiziologii im. 0.0. Bogomol'tsya AN URSR. (ROZHABS XYI, MYKOLA AFOLLINAROVYCH 1884-1957)

į,

KOVTUN, A.P.

Interrelations between processes of excitation and inhibition in the direct formation of conditioned trace food reflexes. Fixiol. zhur. [Ukr.] 4 no.3:287-296 My-Je '58 (MIRA 11:7)

GMYRYA-NOVI, V.A.; KOVTUN, A.P.; LUK'YANOVA, O.N.; VASECHKO, T.V.

Induced potentials in the auditory area of the cerebral cortex in trace conditioned reflexes. Zhur. vys. nerv. deiat. 12 no.4: 670-678 J1-Ag '62. (MIRA 17:11)

1. Bogomoletz Institute of Physiology, Ukrainian Academy of Sciences, Kiev.

ACCESSION NR: AP4011413

\$/0238/64/010/001/0047/0054

AUTHOR: Adamenko, M. P.; Kovtun, A. P.

TITLE: Conditioned reflex activity of animals revived after lethal electric traums

SOURCE: Fiziologichny*y zhurnal, v. 10, no. 1, 1964, 47-54

TOPIC TAGS: clinical death, revival, electric trauma, conditioned reflex, autojector pump, living donor, method of revival, motor electric defensive conditioned reflex, insulated chamber

ABSTRACT: The condition of the higher nervous activity of 5 dogs which underwent clinical death from electric trauma lasting 11 to 17.5 minutes (considered from their last breath) and were revived with the aid of an autojector pump developed by S. S. Bryukhonenko and a living blood donor was investigated. The experiments were conducted in a sound-insulated chamber on the conditioned reflexes according to the motor electric defensive method of V. P. Protopopov. Positive and inhibiting conditioned reflexes were developed in the animals from sound and visual analyzers. The formation of positive motor defensive conditioned reflexes in these animals by sound irritation did not differ at all from the reflexes of intact animals; they were narrowly generalized. A steady differentiated inhibition

ACCESSION NR: AP4011413

we sufficiently easily developed by sound irritation. Despite the same rate of appearance of the positive reflex from the visual analyzer, a considerably greater amount of reinforcement with unconditioned irritation was required for its fixing, and it remained generalized for a long time. Differentiated inhibition by light irritation was developed in these animals also; however, it was formed with difficulty and was unstable. The data obtained attest in favor of the method of revival (N. P. Adamenko's) with the use of a living blood donor in contrast to animals revived according to the method of artificial blood circulation of S. S. Bryukhonenko after lethal blood loss and clinical death lasting IC-15 minutes, in pathological obstruction of the sites of excitation, and disturbance of the

ASSOCIATION: Insty+tut fisiologiyi im. O. O. Bogomol'taya Akademiyi nauk URSR, Kiev (Institute of Physiology, Academy of Sciences, URSR)

SUBMITTED: 303ep63

DATE ACQ: 14Feb64

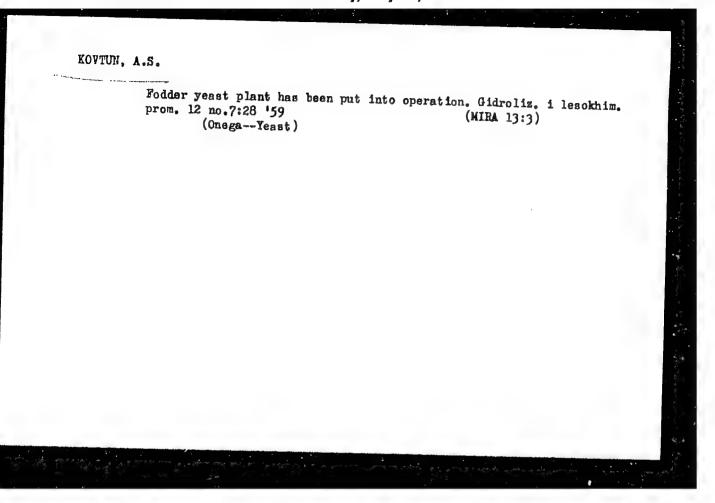
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NO REF SOV: 012

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Card 2/2



DMITRIYEVA, Ye.A.; KOVTUN, A.S.

Role of fracturing in Lower Palezoic carbonate rocks of the Anabar arch in prospecting for oil reservoirs. Trudy VNIGRI no.193:77-95 (MIRA 15:12)

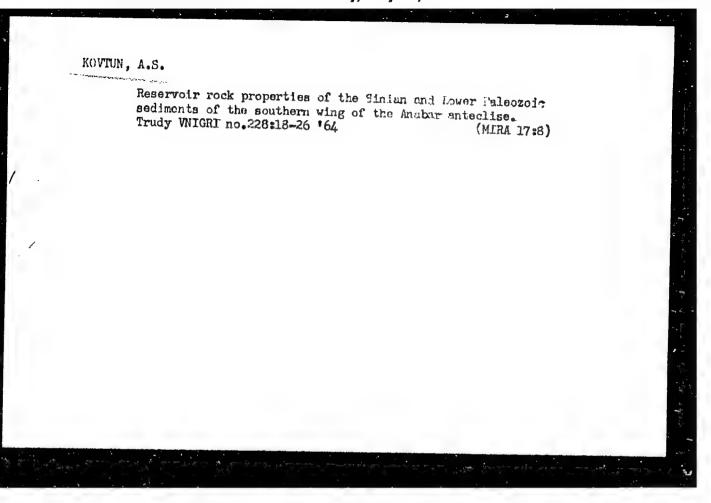
(Anabar shield--Rocks, Carbonate)

"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000825710

-	Slime conduit made of plywood pipes. Gidroliz.i lesokhim.prom. 15 no.8:30 62. (MIRA 15:12)	
	(MIRA 15:12) (Onega-Hydrolysis) (Pipe, Wooden)	

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825710



SHAMPANOV, M.D.; KOVTUN. A.S.

Certain results for 1952 in controlling helminthiasis, malaria and diseases transmitted by mosquitoes in the R.S.F.S.R., and problems to be solved in the near future. Med.paraz.i paraz.bol. no.4:299-305 Jl-Ag '53. (MLRA 6:9) (Worms, Intestinal and parasitic) (Malarial fever) (Insects as carriers of contagion)

KOVTUN, A.S.

Achievements in the control of malaria and other parasitic diseases in the R.S.F.S.R. during 1953 and tasks for 1954. Med. paras. i paras. bol. no.3:200-202 JI-S 154. (MIRA 8:2)

1. Nachalinik otdela parazitnykh zabolevaniy Ministerstva zdravo-okhraneniya RSFSR.

(MALARIA, prevention and control, Russia) (PARASITIC DISEASES, prevention and control, Russia)

Results of control of malaria, helminthiases and other parasitic diseases in the RSFSR during 1954. Med.paraz. i paraz. bol.24 no.3:201-204 Jl-5 '55. (MALARIA, prevention and control in Rassia) (HELMINTH INFECTIONS, prevention and control in Russia) (PARASITIC DISEASES, prevention and control in Russia)

KOVTUN, A.S.

Results of combatting malaria and other parasitic diseases in the R.S.F.S.R. during the period 1951-55 and tasks for 1956-60. Med. paraz. i paraz.bol. 25 no.3:202-206 Jl-S '56. (MORA 9:10) (MALARIA, prevention and control, in Russia (Rus)) (PARASITIC DISEASES, prevention and control, in Russia (Rus))

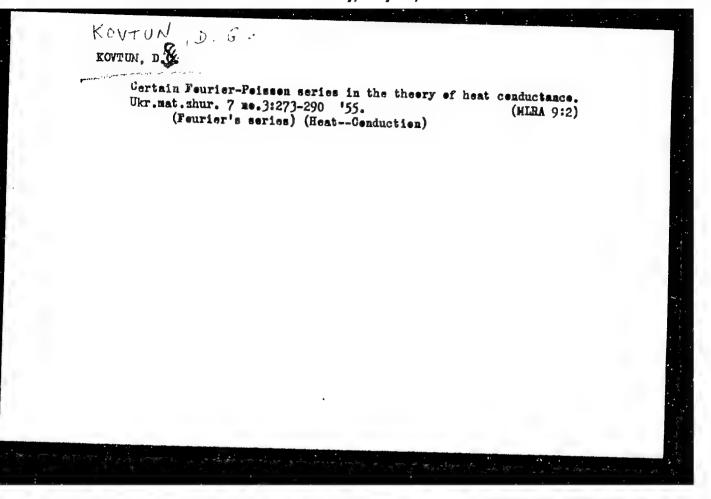
- 1. KUCHUKOV, A. F., KOVTUN, A. T.
- 2. USSR (600)
- 4. Poultry Feeding and Feeding Stuffs
- 7. Leading work practices in machine fattening of chickens. Fittsevedstvo no. 11, 1952.

9. Monthly List of Russian Accessions, Library of Congress, March 1953. Unclassified.

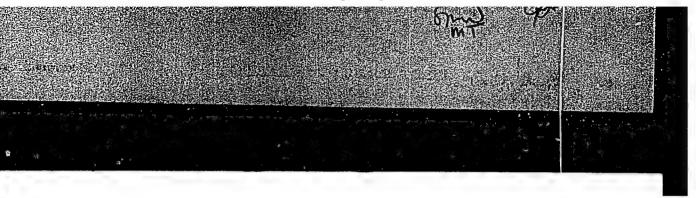
METIEREAMP, Ye.A., dotsent, kandidat tekhnicheskikh nauk; KOVTUV n.o.
dotsent fiziko-matematicheskikh nauk; ANGELEYKO, V.I., dotsent,
kandidat tekhnicheskikh nauk.

Scheduling railroad-tie replacement. Trudy KHIIT no. 24:63-80 154.
(Railroads--Ties)

(MERA 8:1)



"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000825710



124-1957-2-1535

Translation from Referativnyy zhurnal, Mekhanika, 1957, Nr 2, p 14 (USSR)

AUTHOR: Kovtun, D. G.

TITLE:

On the Equation of Motion of a Wheel With an Unsprung Mass Along an Elastically Deforming Material Curve (Ob uravneniyakh dvizheniya kolesat pri headeleney massoy po uprugo deformiruyushcheysya material'noy krivoy)

PERIODICAL Tr. Khar'kovsk. in-ta inzh. zh.-d. transp., 1956, Nr 26, pp

ABSTRACT: The equations of motion of a rigid wheel with an unsprung mass along an elastically deforming material curve were obtained. In cases when the motion in the horizontal plane is stationary, the motion of the center of inertia of the wheel in the vertical plane is described by an equation of a quasi-harmonic type. The solutions of the equations are not given.

K.S. Kolesnikov

1. Wheels--Motion 2. Mathematics

Card 1/1

KOVTUN, D.G., kand.fiz.-mat.nauk, dots.; ANGELEYKO, V.I., doktor tekhn. nauk.prof.

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